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NCAU = ★ Q42 F3245 D/23 ★SU -767-277
Soil mechanical characteristic tester - has chamber formed by
pressure chambers walls which include sections with elastic
walls

N CAUCASUS SEVKAVGI(MOWA =) 15.12.78-SU-697500
(05.10.80) E02d-01/02

15.12.78 as 697500 (3pp121)

The instrument for testing the soils mechanical properties measures the horizontal component of massive deformation by an additional chamber contained between shell and the pressure chamber.

The sample (1) is located in the cylinder (2) and pressed between the stamps (4,5). The chamber's (7) elastic walls (5) face the sample whilst the walls of the chamber (8) face outside. The inserts (3) and (9) reduce the friction. The liquid filled chambers (7) and (8) are connected by a tube (10) which has a pressure transmitter (11) and a flow indicator (12).

The sample is placed between two perforated pistons. The chambers are placed inside the sample, with the elastic walls of the adjoining chambers facing opposite directions. Sample is deformed, the liquid from the chamber whose elastic wall faces it is pumped into the chamber whose elastic wall faces outside and deforms the surrounding soil. The pressure and the volume of transferred liquid is measured (11,12). Bul.35/23.9.80.

